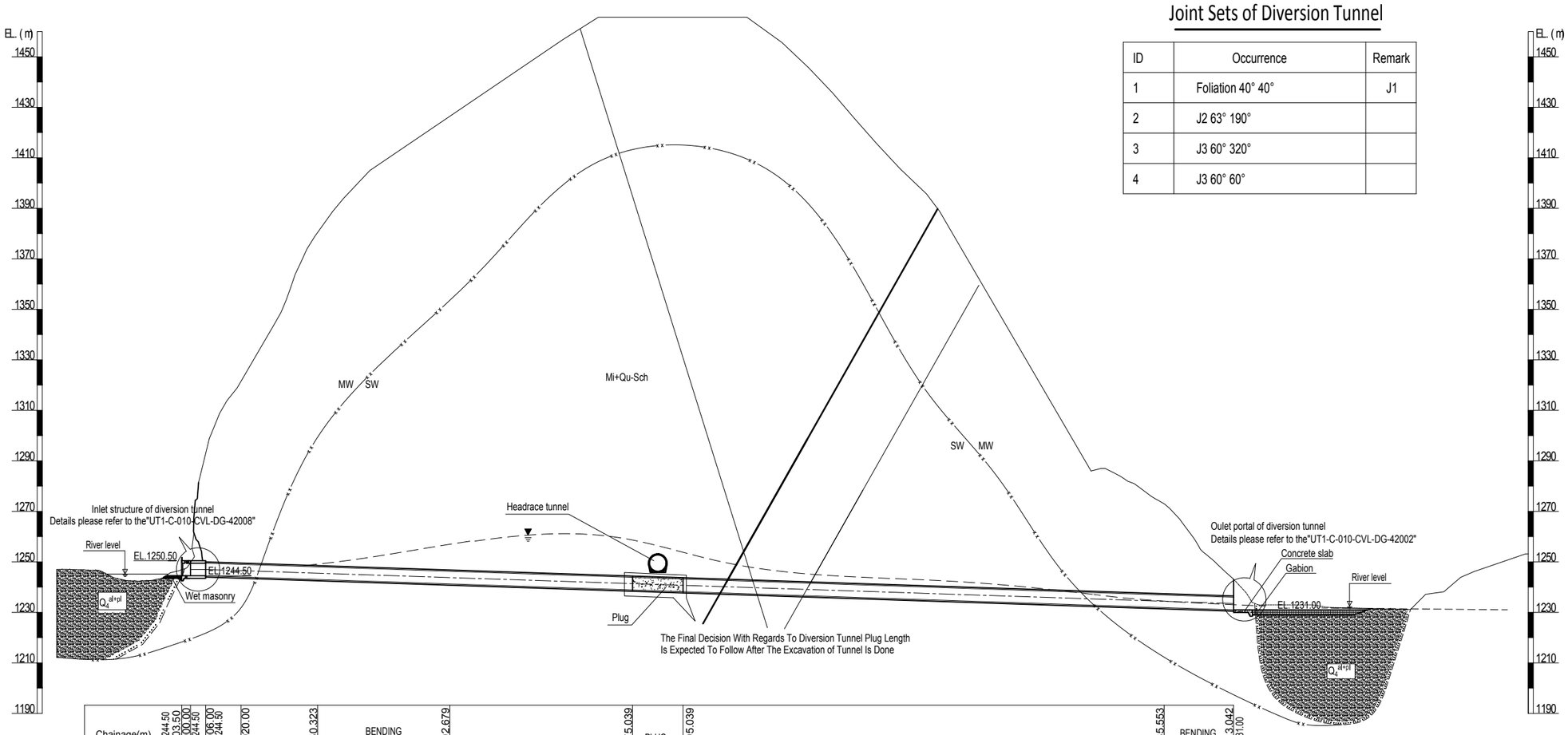
Longitudinal Profile of Diversion Tunnel

Scale 1:1000



Chainage(m)	EL.1244.50 D0+000.00	D0+000.00 EL.1244.50	D0+006.00 EL.1244.50	D0+020.00	D0+050.323	BENDING SECTION	D0+102.679	D0+175.039	PLUG	D0+195.039	D0+385.553	BENDING SECTION	D0+413.042 EL.1231.00
Gradient	0%	3.32%											
Rock class type	D	C		Ė	Ė□ę			E	Ė□ę	ë	Ė	ë	C
Support type				B	A~B				A~B	C	B	C	
	D0+000.00 Certain	D0+006.00 Certain	D0+020.00	Tentative	D0+064.115	Tentative	D0+175.039	Certain	D0+195.039 Tentative	D0+207.590 Tentative	D0+226.935	Tentative	D0+346.500	Tentative	D0+385.553	Certain	D0+413.042

Joint Sets of Diversion Tunnel

ID	Occurrence	Remark
1	Foliation 40° 40°	J1
2	J2 63° 190°	
3	J3 60° 320°	
4	J3 60° 60°	

SCALE:

1:1000 0 10 20 30 40 50m

1:100 0 1 2 3 4 5m

NOTE

1. All dimensions are in millimeters, and coordinates, chainages & elevations are in meters.
2. The excavation and support types of diversion tunnel can be adjusted by the designer according to the actual situation after the geological conditions are revealed.
3. Symbol description:
   A-Line is the design excavation line;
   B-Line is the overbreak line;
   D-denotes deformed bar, yield strength of the deformed bar is 500MPa.
4. Strength specification of concrete & shotcrete:
   (1) Concrete class E: Cylinder specified compressive strength 24MPa at 28 days.
   (2) Shotcrete: Cylinder specified compressive strength 25MPa at 28 days.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42001	Arrangement Drawing Of Diversion Tunnel
UT1-C-010-CVL-DG-42002	Excavation and Support Drawing of Inlet and Outlet Portal of Diversion Tunnel
UT1-C-010-CVL-DG-42008	Outline of Diversion Tunnel Intake Tower
UT1-C-010-CVL-DG-42007	Diversion Facilities Outline Drawing of diversion tunnel plugging

SYMBOL AND LEGEND

FOR APPROVAL

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0A	17.AUG,2021	First issue	DONG Z.Z.	K.J.KIM	Y.S.SON

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE JADE CONSULT

CONTRACTOR

DOOSAN Enerbility

DRAWING TITLE

EXCAVAITON AND INITIAL SUPPORT DRAWING OF DIVERSION TUNNEL(1/2)

DRAWING NUMBER	SHEET NO.	REV. NO.
UT1-C-010-CVL-DG-42003-1	1 OF 2	0C